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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/531,802	03/21/2000	Michael James Carey	AM9-99-0247	6497
33360 7:	590 10/06/2003		EXAMINER	
MARK D. MCSWAIN			PANNALA, SATHYANARAYA R .	
IBM ALMADI 650 HARRY R	EN RESEARCH CENTER,	IP LAW DEPT.	ART UNIT	PAPER NUMBER
CHTA/J2B	OAD		2177	0
SAN JOSE, C	A 95120	•	DATE MAILED: 10/06/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	9		
Office Action Summary		09/531,802	CAREY ET AL.	•		
		Examiner	Art Unit			
		Sathyanarayan Pannala	2177			
Th Period for Re	e MAILING DATE of this communication app ply	pears on the cover sheet with the o	correspondence address -	-		
THE MAIL - Extensions after SIX (6 - If the period - If NO period - Failure to re - Any reply re	ENED STATUTORY PERIOD FOR REPLING DATE OF THIS COMMUNICATION. of time may be available under the provisions of 37 CFR 1.1) MONTHS from the mailing date of this communication. If for reply specified above is less than thirty (30) days, a replication of the reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statute seceived by the Office later than three months after the mailing and term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	mely filed /s will be considered timely. It the mailing date of this communica ID (35 U.S.C. § 133).	ation.		
1)⊠ Re	sponsive to communication(s) filed on 21 I	March 2000 .				
<u>'</u>	is action is FINAL . 2b) Th	nis action is non-final.				
	ce this application is in condition for allowa			ts is		
clo Disposition o	sed in accordance with the practice under f Claims	Ex parte Quayle, 1935 C.D. 11, 4	453 O.G. 213.			
•	m(s) <u>1-44</u> is/are pending in the application					
	Of the above claim(s) is/are withdra	wn from consideration.				
5)⊡ Clai	m(s) is/are allowed.					
6)⊠ Clai	m(s) <u>1-44</u> is/are rejected.					
	m(s) is/are objected to.					
•	m(s) are subject to restriction and/o	or election requirement.				
Application F	•					
•	specification is objected to by the Examine drawing(s) filed on is/are: a)□ acce		minor			
,	plicant may not request that any objection to the	· _ ·				
•	proposed drawing correction filed on	• , ,		e.		
	pproved, corrected drawings are required in re		,			
12) The	path or declaration is objected to by the Ex	aminer.				
Priority unde	r 35 U.S.C. §§ 119 and 120					
	nowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119(a	a)-(d) or (f).			
a)∏ Al	I b)☐ Some * c)☐ None of:					
1.	Certified copies of the priority document	s have been received.				
2.	2. Certified copies of the priority documents have been received in Application No					
	Copies of the certified copies of the prio application from the International Bu he attached detailed Office action for a list	reau (PCT Rule 17.2(a)).				
	owledgment is made of a claim for domesti	· · · · · · · · · · · · · · · · · · ·		ation).		
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1) Notice of F 2) Notice of D	deferences Cited (PTO-892) Praftsperson's Patent Drawing Review (PTO-948) In Disclosure Statement(s) (PTO-1449) Paper No(s) <u>2</u>	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)			

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DETAILED ACTION

Drawings

1. The drawings in this application are objected to by the Draftsperson as informal and PTO948 is attached with this Office Action. Any drawing corrections requested, but not made in the prior application should be repeated in this application if such changes are still desired. If the drawings were changed and approved during the prosecution of the prior application, a petition may be filed under 37 CFR 1.182 requesting the transfer of such drawings, provided the parent application has been abandoned. However, a copy of the drawings as originally filed must be included in the 37 CFR 1.60 application papers to indicate the original content.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C.§ 102 that form the basis for the rejections under this lines made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-13, 17-34, 38-44 are rejected under 35 U.S.C.§ 102(b) as being anticipated by Monday (US Patent 6,480,860) hereinafter Monday.
- 4. Monday anticipated independent claims 1, 22, 43-44 by the following:

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"mapping a number of relational database tables to a number of virtual XML documents" at Fig. 2, col. 7, lines 4-20;

"issuing XML queries over said virtual XML documents" at Fig. 1, 4, col. 4, lines 64-65 and col. 7, lines 24-25;

"parsing said XML queries" at col. 5, lines 18-24;

"It transforming said XML queries into a language-neutral intermediate representation" at Fig. 1, col. 5, lines 25-31;

"rewriting said language-neutral intermediate representation into an equivalent form easily translated into an SQL query" at Fig. 1, col. 5, lines 32-37; "translating said equivalent form into an SQL query over said relational database tables and into tagging instructions passed to a tagger" at Fig. 1-2, 4, col. 5, lines 3-17 and col. 7, lines 46-50;

"executing said SQL query to produce SQL query results passed to said tagger" at Fig. 1, col. 5, lines 3-17;

"generating XML output using said SQL query results and said tagging instructions" at Fig. 2, 4, col. 7, lines 59-67.

- 5. As per dependent claims 2, 23, Monday anticipated "method operates over a distributed computing network" at Fig. 2, col. 8, lines 3-6.
- 6. As per dependent claims 3, 24, Monday anticipated "method operates over the Internet" at Fig. 1, col. 4, lines 52-63.
- 7. As per dependent claims 4, 25, Monday anticipated "mapping step operates recursively" at Fig. 2, col. 7, lines 50-53.

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- 8. As per dependent claims 5, 26, Monday anticipated "mapping step operates manually" at Fig. 5, col. 9, lines 46-51 and col. 10, lines 18-21.
- 9. As per dependent claims 6, 27, Monday anticipated "mapping step maps said relational database tables to said virtual XML documents in a one-to-one manner" at Fig. 5, col. 9, lines 5-9.
- 10. As per dependent claims 7, 28, Monday anticipated by the following:
 "how to select and relate data from said relational database tables" at Fig. 5, col. 9, lines 5-9;
 "how to construct and group new XML elements from data bindings" at Fig. 4, col. 9, lines 38-65.
- 11. As per dependent claims 8, 29, Monday anticipated "transforming step operates on at least one said relational database table and produces at least one output table" at Fig. 5, col. 9, lines 5-9.
- 12. As per dependent claims 9, 30, Monday anticipated "operations include BIND operations" at col. 10, lines 10-14.
- 13. As per dependent claims 10, 31, Monday anticipated "operations include SELECT operations" at Fig. 2, col. 7, lines 59-61.
- 14. As per dependent claims 11, 32, Monday anticipated "operations include CONSTRUCT operations" at Fig. 2, col. 7, lines 62-64.
- 15. As per dependent claims 12, 33, Monday anticipated "operations include JOIN operations" at Fig. 6, col. 8, line 67 to col. 9, line 4.

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16. As per dependent claims 13, 34, Monday anticipated "operations include GROUP operations" at Fig. 2, col. 7, lines 62-64.

- 17. As per dependent claims 17, 38, Monday anticipated "tagger operates outside an RDBMS" at Fig. 2, col. 7, lines 4-20.
- 18. As per dependent claims 18, 39, Monday anticipated "operations describing how to select and relate data are translated into an SQL query that establishes selection criteria and required relationships among data" at Fig. 5, col. 9, lines 5-9.
- 19. As per dependent claims 19, 40, Monday anticipated "operations describing how to construct and group new XML elements are translated into said tagger instructions" at Fig. 4, col. 9, lines 38-65.
- 20. As per dependent claims 20, 41, Monday anticipated "operations are reordered to be performed last" at Fig. 4-5, col. 9, line 59 to col. 10, line 3.
- 21. As per dependent claims 21, 42, Monday anticipated "language-neutral intermediate representation serves as said tagging instructions" at Fig. 1, col. 5, lines 25-31.

Claim Rejections - 35 USC § 103

- 22. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the

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time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

- 23. Claims 14-16, 35-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Monday (US Patent 6,480,860) hereinafter Monday and in view of Chen (US Patent 6,507,856) hereinafter Chen.
- 24. As per dependent claims 14, 35, Monday does not teach explicitly Nest operation. However, Chen teaches "operations include NEST operations" at Fig. 9, col. 6, lines 30-43. Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate inputting relevant information to view image objects. Monday and Chen are combined as they teach XML and querying database and to incorporate exchanging and merging messages over network. In order to view data from database without the knowledge of database access queries, the XML is used to query and retrieve data from the database.
- 25. As per dependent claims 15, 36, Monday teaches the following:
 "eliminating both S and B whenever S is followed by a BIND operation B, where
 S denotes the sequence of CONSTRUCT, GROUP, and CONSTRUCT
 operations following a table access for a default view of a table T,

leaving just the table access for T" at Fig. 2, col. 10, lines 10-14 and col. 7, lines 62-64;

"replacing N by a JOIN operation, followed by S and a new GROUP operation which performs the child grouping that was previously done by N, where N denotes a NEST operation and S denotes any sequence of u CONSTRUCT and GROUP operations for the child input of N" at Fig. 2, col. 7, lines 62-64. Monday does not explicitly teach NEST operation. However, Chen teaches NEST operation (at Fig. 9, col. 6, lines 30-43). Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate inputting relevant information to view image objects. Monday and Chen are combined as they teach XML and querying database and to incorporate exchanging and merging messages over network. In order to view data from database without the knowledge of database access queries, the XML is used to query and retrieve data from the database.

26. As per dependent claims 16, 37, Monday does not teach nesting operation. However, Chen teaches "rewriting step may operate repeatedly for deeper levels of nesting" at Fig. 10A-B, col. 6, lines 43-49. Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate inputting relevant information to view image objects. Monday and Chen are combined as they teach XML and querying database and to incorporate exchanging and merging messages over network. In order to view data from database without the knowledge of database access queries, the XML is used to query and retrieve data from the database.

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Conclusion

27. The prior art made of record, listed on form PTO-892, and not relied upon, if any,

is considered pertinent to applicant's disclosure.

28. If a reference indicated, as being mailed on PTO-FORM 892 has not been

enclosed in this action, please contact Lisa Craney whose telephone number is (703)

305-9601 for faster service.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Sathyanarayan Pannala whose telephone number is

(703) 305-3390. The examiner can normally be reached on 8:00 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, John Breene can be reached on (703) 305-9790. The fax phone number

for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 305-

3900.

Sathyanarayan Pannala

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Examiner

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srp

September 30, 2003

PRIMARY EXAMINER